

Assignment Brief: Comp2403 Robotics 2023-24, Semester 1

Assignment 1	<i>Viva-voce Examination</i>
Word Limit or equivalent (e.g. time)	20-30 minute exam
Weighting	100 %
Learning Outcomes Assessed	<ol style="list-style-type: none"> 1. Implement and evaluate robot control architectures 2. Apply the theory of robot kinematics. 3. Evaluate a range of sensor and motor-drive systems. 4. Design, build and test a robot application to solve a given problem.
Submission date	The <i>vivas</i> will take place during Examination Week 15 th January – 19 th January 2024; a schedule will be agreed. You must upload your portfolio to Blackboard by Monday 8 th January 2024.
Feedback date	All assignment feedback will be issued on the 20th working day following the submission deadline. Feedback will be released on: Friday 16th February
Module Leader	Dr. Colin Price c.price@worc.ac.uk
Verified by	Akinola Siyanbola a.siyانبola@worc.ac.uk

If anything about this assignment is not clear to you, please contact your module leader.

What do I need to do to make a success of this assignment?	<p>The assessment is an Examination by <i>viva voce</i>. This is a 20–30-minute one-to-one conversation with your tutor. This will be based on a portfolio of work which you will assemble during the module sessions.</p> <p>The portfolio must contain at least one item aligned to each learning outcome.</p> <p>You will be asked questions on each learning outcome. You will be graded principally on your ability to explain what you have presented.</p>
---	---

How should I present my work?	<p>Divide your portfolio into 4 sections, one for each learning outcome.</p> <p>Each section should contain a good mix of visual material. Typically, this will include (i) code snippets, (ii) diagrams such as flow charts or state machines, (iii) photos of your robots, (iv) design drawings, (v) tables and graphs of data, (vi) movie-clips.</p> <p>Any text in your document will be only for your benefit, to aid as an aide-memoire when you are preparing for the exam. Text will not be read in the exam.</p> <p>You do not need to cite any journal articles in this assignment.</p> <p>You are allowed to share material with your team-mates, such as code, movie-clips, photos, screenshots, etc.</p>
--------------------------------------	---

<p>How can I obtain guidance on my assignment?</p>	<p>You will have the opportunity for a mock <i>viva</i> in class. This will happen during the last 2 weeks of the module.</p> <p>Assessment briefings will be given at the start of the module and also during w/c 1st November 2023.</p> <p>Your tutor is happy to respond to question concerning your assignment at any time in class or via email.</p>
<p>How and when do I hand my assignment in?</p>	<p>Your portfolio must be word-processed/typed and should clearly show your student number. You should submit your portfolio by the 3pm deadline on Monday 8th January 2024. You should submit your work to Blackboard which is available via MyDay. You are required to keep a copy of work handed in.</p> <p>See the separate Assignment Support Information document on Blackboard for help on how to submit or what to do if you are having trouble submitting your assignment.</p>
<p>How will my assignment be marked?</p>	<p>Specific marking criteria for your assignment is provided in the Grading Matrix within this document.</p> <p>You are strongly advised to check your completed work against the Grading Matrix to ensure have completed all areas required before you submit it.</p> <p>You should also ensure you adhere to the word limit / word count stated in your assessment brief document, details of which can be found in the University's Assessment Policy</p>

Grading Matrix

This matrix captures the assessment criteria for this part of the coursework.

Student Name/Number:		Assignment No:	1	Weighting:	1
Module Code:	Comp2403	Assignment Title:	<i>Viva voce examination</i>		
Module Title:	Robotics	Semester:	1		
Learning Outcomes being assessed:					
1. Implement and evaluate robot control architectures 2. Apply the theory of robot kinematics. 3. Evaluate a range of sensor and motor-drive systems. 4. Design, build and test a robot application to solve a given problem.					

Assessment Criteria

	Knowledge and Understanding		Autonomy in Learning	Communication
Grade	Annotated Code	Investigations	Evidence of Planning	
%	30	30	30	10
A	Annotated code is discussed both comprehensively AND with detail	Explanations are both comprehensive AND detailed	Design and build discussion is comprehensive AND detailed.	The conversation shows shared thinking AND exploratory talk.
B	Comprehensive OR detailed discussion of annotated code.	Comprehensive OR detailed explanations.	Design and build discussion is comprehensive OR detailed.	The conversation shows shared thinking OR exploratory talk.
C	Annotated Code discussed.	Explanations of investigations presented.	Discussion around the design and build of a solution	Conversation covers all 4 learning outcomes.
D	Attempt at discussion of annotate code.	Attempt at explanations, but may contain errors	Attempt at including design and build discussion	Conversation covers 2-3 learning outcomes
Fails	Little or no attempt to discuss annotate code.	Little or no attempt at explanations.	Little or no attempt at including design and build discussion	Conversation covers less than 2 learning outcomes.

NB: RESULTS ARE PROVISIONAL UNTIL AGREED BY THE BOARD OF EXAMINERS